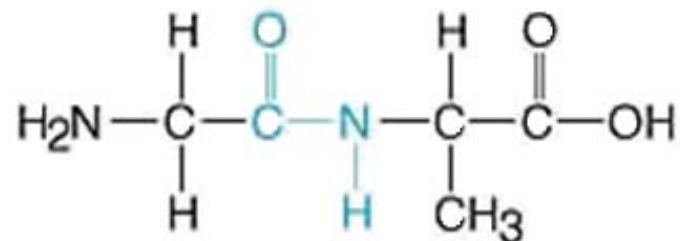


## Crystal Ball Questions on Amino acids, dipeptides, tripeptides and proteins

*All of the following questions have not (as yet!) appeared in the NCEA Level 3 Exams*

1)



“The dipeptide glycylalanine is made up of amino acids.” Discuss this statement

2) Draw the structural formula of the following amino acids

<b>Serine</b> 2-amino-3-hydroxypropanoic acid	<b>Glycine</b> aminoethanoic acid	<b>Alanine</b> 2-aminopropanoic acid

Draw a small section of silk, a polymer made up of repeating unit of the amino acids, put a square box around all of the peptide links  
glycine - serine – glycine – alanine – glycine – alanine in that order

3) Draw the structures of alanine (2-aminopropanoic acid) as **i)** a zwitterion **ii)** in acidic solution and **iii)** in basic solution